

1. Overview

This proposal outlines the development of a comprehensive private dashboard solution for Daikibo Corporation to monitor the health status of 36 machines across their 4 manufacturing facilities. The system will provide real-time telemetry visualization, historical data analysis, and intuitive status monitoring capabilities accessible exclusively within the client's secure intranet environment.

The dashboard will serve as a centralized monitoring hub, enabling operations teams to quickly identify machine issues, track performance trends, and maintain optimal factory efficiency. The solution will integrate seamlessly with Daikibo's existing infrastructure and authentication systems, ensuring secure access while maintaining operational continuity.

2. Scope

The project encompasses the following core functionalities:

Core Features:

Real-time Machine Status Monitoring: Live display of health status for all 36 machines (9 machines × 4 factories)

Hierarchical Data Organization: Factory-level and device-level categorization with collapsible/expandable views

Historical Status Tracking: Timeline view of machine status changes and performance history

Intranet-Only Access: Secure deployment within client's internal network infrastructure

Single Sign-On Integration: Authentication synchronized with existing internal authentication server

Responsive Dashboard Interface: Single-page application optimized for various screen sizes



3. Estimate

Total Project Estimate: 280 man-hours

Breakdown by Phase:

Development Phase: 180 hours

Frontend dashboard development: 80 hours

Backend API and data integration: 60 hours

Authentication system integration: 25 hours

Real-time data streaming implementation: 15 hours

Testing Phase: 60 hours

Unit testing and code quality assurance: 25 hours

Integration testing with existing systems: 20 hours

User acceptance testing and feedback incorporation: 15 hours

Integration and Deployment: 40 hours

Intranet deployment configuration: 15 hours

Authentication server integration testing: 10 hours

Performance optimization and monitoring setup: 10 hours

Documentation and knowledge transfer: 5 hours

4. Timeline

1. **September 1, 2024: Project initiation and requirements finalization**
2. September 5, 2024: Technical architecture design and system analysis begins
3. September 15, 2024: Frontend development starts - dashboard UI components
4. September 25, 2024: Backend development begins - API and data integration
5. October 10, 2024: Authentication system integration phase
6. October 20, 2024: Real-time telemetry streaming implementation
7. October 30, 2024: Integration testing with client systems begins
8. November 10, 2024: User acceptance testing phase
9. November 20, 2024: Deployment to client intranet environment
10. November 25, 2024: Final testing and performance optimization
11. November 30, 2024: Project delivery and documentation handover
12. December 5, 2024: Go-live and production monitoring begins

5. Support

Our commitment to Daikibo extends well beyond project delivery. We provide comprehensive ongoing support to ensure the dashboard continues to meet evolving operational needs:

Continuous Support Services:

24/7 Technical Support: Immediate response to critical issues affecting factory operations

Regular Maintenance: Scheduled system updates, security patches, and performance optimization

Bug Resolution: Rapid identification and resolution of any software defects

Feature Enhancement: Quarterly reviews and implementation of new functionality based on user feedback

System Monitoring: Proactive monitoring of dashboard performance and data integrity

Documentation Updates: Continuous maintenance of technical documentation and user guides

Support Commitment:

Response Time: Critical issues resolved within 4 hours, standard issues within 24 hours

Availability: Support team available during business hours with emergency escalation procedures

Training: Ongoing user training sessions and knowledge transfer to internal IT teams

Scalability: Support for future expansion to additional factories or machine types

Our experienced development team remains available for consultation, system enhancements, and technical guidance throughout the product lifecycle, ensuring Daikibo maximizes the value of their monitoring dashboard investment.

This proposal is valid for 30 days from the date of submission. All estimates are based on current requirements and may be adjusted following detailed technical analysis.

Technical Specifications:

Authentication System: Integration with company-wide Active Directory/LDAP authentication

Data Visualization: Interactive charts and status indicators for machine health metrics

Real-time Updates: WebSocket connections for live telemetry data streaming

Database Integration: Connection to existing telemetry data sources

Security Compliance: Implementation of internal security protocols and access controls

Performance Optimization: Efficient data loading and caching mechanisms

User Interface Components:

Factory overview grid with status summary

Expandable factory sections showing individual machines

Machine detail panels with historical data graphs

Alert notification system for critical status changes

Search and filter functionality for quick machine location